ABSTRACT

Coagulated particles of nickel-cobalt-manganese hydroxide wherein primary particles are coagulated to form secondary particles are synthesized by allowing an aqueous solution of a nickel-cobalt-manganese salt, an aqueous solution of an alkali-metal hydroxide, and an ammonium-ion donor to react under specific conditions; and a lithium-nickel-cobalt-manganese-containing composite oxide represented by a general formula, $Li_pNi_xMn_{1-x-y}Co_yO_{2-q}F_q$ (where 0.98 $\leq p$ \leq 1.07, 0.3 \leq x \leq 0.5, 0.1 \leq y \leq 0.38, and 0 \leq q \leq 0.05), which is a positive electrode active material for a lithium secondary cell having a wide usable voltage range, a charge-discharge cycle durability, a high capacity and high is dry-blending coagulated particles of safety. obtained bу nickel-cobalt-manganese composite oxyhydroxide formed by making an oxidant to act on the coagulated particles with a lithium salt, and firing the mixture in an oxygen-containing atmosphere.

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